Further Note on Acidity of Muscle during Maintained Contraction.

By H. E. Roaf.

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In reference to my recent paper,* in consequence of criticism received privately from Mr. Ritchie, I re-investigated the use of the manganese dioxide electrode, and discovered a fault in my technique which invalidates the conclusions drawn.

This fault was that the electrode was not shielded so as to prevent the muscle from touching a portion of the electrode with which it was not in equilibrium When the tension of the muscle increased there was a tendency for the muscle to straighten between the two points of attachment, and this lifted it, slightly bringing it into contact with a fresh surface of the electrode.

I wish, therefore, to acknowledge that the method of investigating living tissues by electrodes, described in my paper, is unsatisfactory, and the results obtained do not indicate the development of acid in the muscle.

Further Experimental Investigations on the Hypertrophy of the Sexual Glands.

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In describing our experiments with partial castration of male animals we stated that very small particles of the testicle left in the body, ranging from a vestige to about half of a testicle, do not increase much (1). No hypertrophy occurred even when the operation was made at a very early age and when the experiment was continued for about eleven months, *i.e.*, till an age when the guinea-pig is already advanced about nine months in sexual maturity.

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* 'Roy. Soc. Proc.,' B, vol. 93, p. 406 (1922).